

# *MOTORIZED VACUUM/PRESSURE PUMP AND STOPPER*

## **Abstract**

A pump and stopper combination for vacuum or pressure sealing a container. The stopper has a pour opening and a one-way valve movable between an operative position to permit one-way flow of fluid into or out of the container when the pour opening is in the closed position, and an inoperative position when the pour opening is in the open position. A vacuum/pressure pump that connects to the stopper includes a drive adapted to convert rotational movement of a motor to reciprocating motion of a pump piston in a chamber, and one-way pump valves mounted in a selectable flow control member. The selectable flow control member is movable between pressure and vacuum positions to permit passage of fluid only into or out of the pump chamber. The pump also includes an indicator for indicating when a desired level of vacuum or pressure has been reached. The pump may be incorporated into a container lid.